�IEEE IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE Publications/Services Standards Welcome **United States Patent and Trademark Office** » Search Results ▼ FAQ Terms IEEE Quick Links Peer Review Welcome to IEEE Xplore Your search matched 1 of 939702 documents. O- Home O- What Can A maximum of 1 results are displayed, 15 to a page, sorted by Relevance in descending I Access? O- Log-out You may refine your search by editing the current search expression or entering a new one Tables of Contents the text box. Then click **Search Again**. O- Journals & Magazines (oil<phrase>well) and train* and neur* and optimiz* O- Conference **Proceedings** Search Again O- Standards Results: Search Journal or Magazine = JNL Conference = CNF Standard = STD O- By Author O- Basic 1 A neural network approach to predict existing and in-fill oil — Advanced well performance **Member Services** Linyu Yang; Zhong He; Yen, J.; Ching Wu; Neural Networks, 2000. IJCNN 2000, Proceedings of the O- Join IEEE O- Establish IEEE IEEE-INNS-ENNS International Joint Conference on , Volume: 4 , Web Account O- Access the Page(s): 408 -413 vol.4 **IEEE Member Digital Library** Print Format [Abstract] [PDF Full-Text (308 KB)] IEEE CNF

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account | New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting No Robots Please | Release Notes | IEEE Online Publications | Help | FAQ| Terms | Back to Top

Copyright © 2003 IEEE - All rights reserved

◎IEEE IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE Careers/Jobs Publications/Services Standards Conferences Welcome **United States Patent and Trademark Office** RELEASE 1.4 » Abstract ▼ FAQ Terms Quick Links IEEE Peer Review Welcome to IEEE Xplore® SEARCH RESULTS [PDF Full-Text (308 KB)] <u>NEXT</u> DOWNLOAD O- Home CITATION O- What Can I Access? O- Log-out **Tables of Contents** A neural network approach to predict O- Journals & Magazines existing and in-fill oil well performance O- Conference Linyu Yang Zhong He Yen, J. Ching Wu **Proceedings** Dept. of Comput. Sci., Texas A&M Univ., College Station, TX; O- Standards This paper appears in: Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Search **Conference on** O- By Author 07/24/2000 -07/27/2000, 2000 O- Basic Location: Como, Italy O- Advanced On page(s): 408-413 vol.4 **Member Services** Volume: 4, 2000 References Cited: 10 O- Join IEEE O- Establish IEEE IEEE Catalog Number: 00CH37134 Web Account Number of Pages: 6

vol.(xxxvii+371+xxxvi+313+679+630+669+659)

INSPEC Accession Number: 6722268

Abstract:

O- Access the IEEE Member

Digital Library

We put forward a neural network approach to predict existing and in-fill oil well performance. Multiple wells history production data were used to train the neural network, and the established neural network can be used to predict future performance of oil wells. No reservoir data is currently involved in the establishment of neural network, therefore it can predict well production performance in absence of reservoir data. Since both the static and dynamic data are used in the training, we combine the spatial and time series prediction together in this approach. Primary production of a 9-well area in North Robertson Unit located in west Texas was tested in this paper. The results demonstrate that our approach is powerful in rapid projection of existing wells future performance, as well as the performance prediction of in-fill drilling wells. By incorporating the appropriate optimization technique, it can be further extended for use in location optimization of in-fill drilling wells

Index Terms:

forecasting theory learning (artificial intelligence) natural resources

neural nets oil technology optimisation time series North Robertson

Unit dynamic data in-fill drilling wells learning neural network oil wells

optimization performance forecasting static data time series well

production history

Documents that cite this document

Solect link to view other documents in the database that cite this

EEE HOME ! SEARC	CHIEEE I SHOP I WEB ACCOUNT I CONTACT IEEE	♦IEEE
Membership Publi	ications/Services Standards Conferences Careers/Jobs	
333	Xplore Welcome United States Patent and Tradema	ark Office
lelp FAQ Tern eer Review	ns IEEE Quick Links ▼	Search Results
elcome to IEEE <i>Xplore</i>		
O- Home	Your search matched 109 of 939702 documents.	
O- What Can I Access?	A maximum of 109 results are displayed, 15 to a page, sorted by Relevance	ce in
O- Log-out	descending order. You may refine your search by editing the current search expression or enter	ering a new one
Tables of Contents	the text box.	and a new one
O- Journals	Then click Search Again .	
& Magazines	train* and neur* and well and optimiz* and valve	
O- Conference Proceedings	Search Again	
O- Standards	Angular - Manufallanda Antonio Manufallanda (Manufallanda Angular) Angular (Manufallanda Angu	•
Search	Results:	
-	Journal or Magazine = JNL Conference = CNF Standard = STD	
O- By Author O- Basic	And the second s	
O- Advanced	1 A neural network approach to predict existing and	in-fill oil
	well performance	
Member Services	Linyu Yang; Zhong He; Yen, J.; Ching Wu;	
O- Join IEEE	Neural Networks, 2000. IJCNN 2000, Proceedings of the	
C - Establish IEEE Web Account	IEEE-INNS-ENNS International Joint Conference on , Volum 2000	ne: 4 ,
O- Access the IEEE Member Digital Library	Page(s): 408 -413 vol.4	
A Print Format	·'	
	TALL AND THE PARTY OF THE PARTY	

[Abstract] [PDF Full-Text (308 KB)] IEEE CNF

2 A large signal elements' simulation of GaAs MESFET using neural network model

Yifan Gao; Cong Gu;

Computational Electromagnetics and Its Applications, 1999.

Proceedings. (ICCEA '99) 1999 International Conference on , 1999

Page(s): 593 -596

[Abstract] [PDF Full-Text (208 KB)] IEEE CNF

3 An artificial neural network-genetic based approach for time series forecasting

Neves, J.; Cortez, P.;

Neural Networks, 1997. Proceedings., IVth Brazilian Symposium on ,

3-5 Dec 1997

Page(s): 9 -13

[Abstract] [PDF Full-Text (360 KB)] IEEE CNF